

Fig. 1

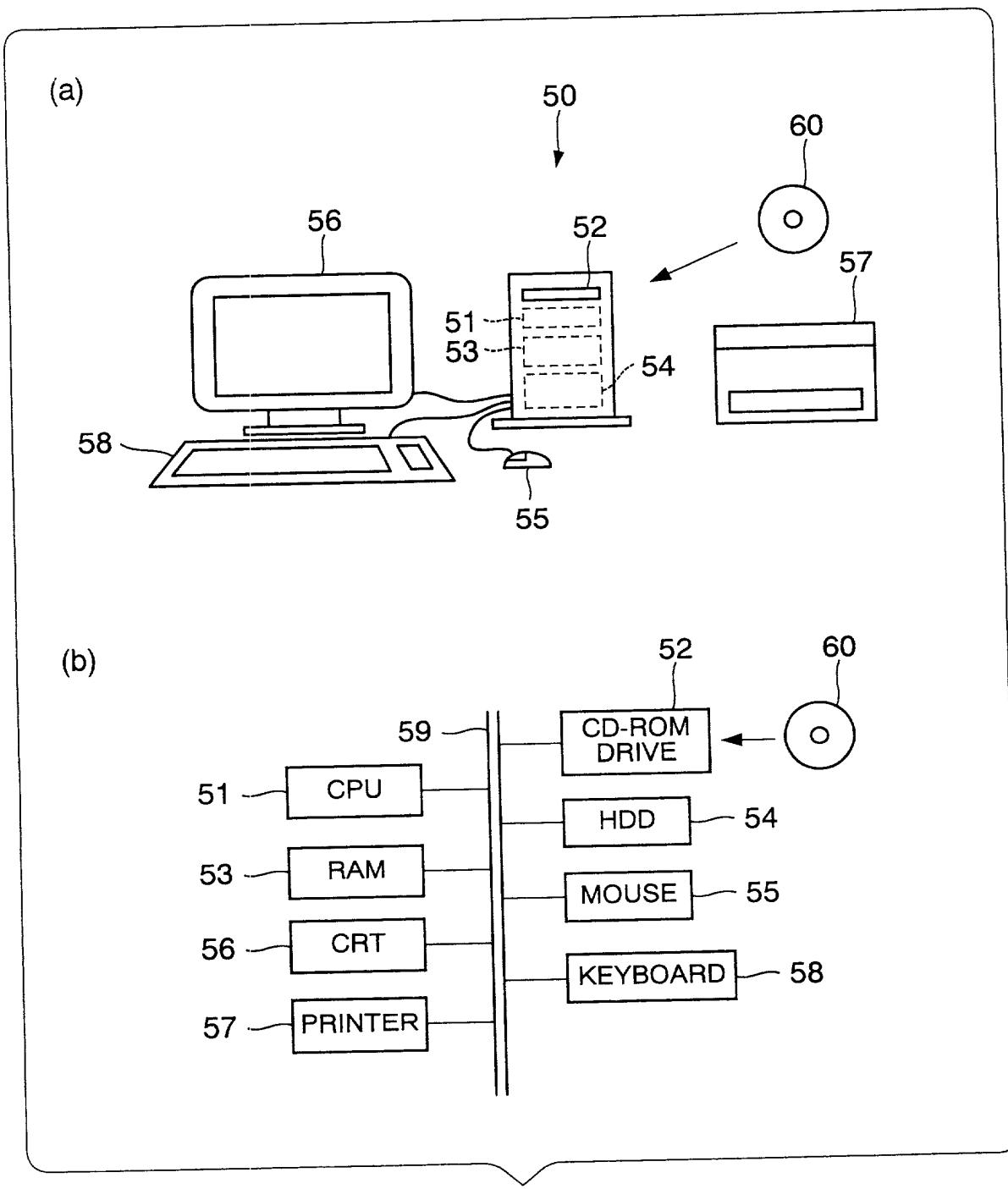


Fig. 2

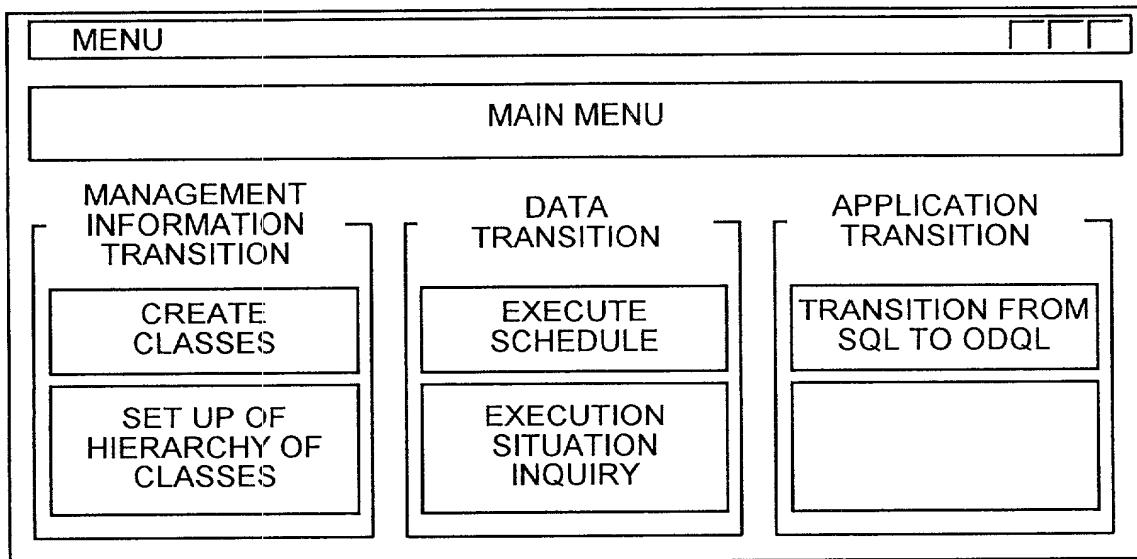


Fig. 3

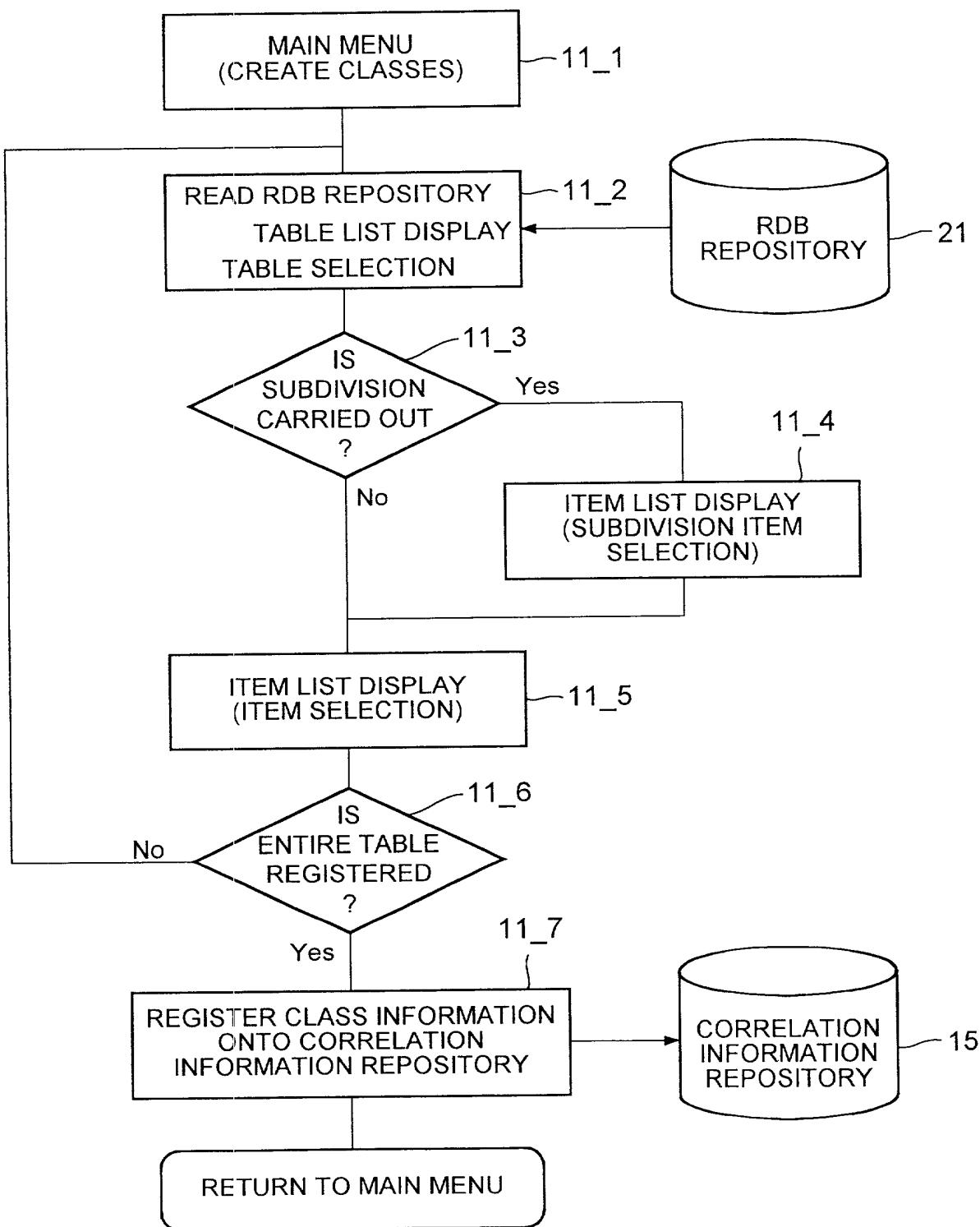


Fig. 4

| TABLES                                    |                                  |                                     |                                   |
|---|----------------------------------|-------------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> MAKER | <input type="checkbox"/> COUNTRY | <input type="checkbox"/> PREFECTURE | <input type="checkbox"/> BEVERAGE |
| ATTRIBUTES                                |                                  |                                     |                                   |
|   | ITEM NAMES                       | DIGITS                              | TYPES                             |
| 1   | MAKER CODE                       | 3                                   | INT                               |
| 2   | MAKER NAME                       | 30                                  | CHAR                              |
| 3   | MAIL NUMBER                      | 8                                   | CHAR                              |
| 4   | ADDRESS                          | 50                                  | CHAR                              |
| 5   | TEL                              | 13                                  | CHAR                              |
| 6   | FAX                              | 13                                  | CHAR                              |
| 7   |                                  |                                     |                                   |
| 8   |                                  |                                     |                                   |
| 9   |                                  |                                     |                                   |
| 10  |                                  |                                     |                                   |

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**NEXT SCREEN**

**NEXT SCREEN**

Fig. 5

SET UP OF CLASS

| TABLES  |                | ATTRIBUTES OF MAKER |        |       |
|---|----------------|---------------------|--------|-------|
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | CLASSIFICATION | ITEM NAMES          | DIGITS | TYPES |
|   |                | 1 MAKER CODE        | 3      | INT   |
|   |                | 2 MAKER NAME        | 30     | CHAR  |
|   |                | 3 MAIL NUMBER       | 8      | CHAR  |
|   |                | 4 ADDRESS           | 50     | CHAR  |
|   |                | 5 TEL               | 13     | CHAR  |
|   |                | 6 FAX               | 13     | CHAR  |
|   |                | 7                   |        |       |
|   |                | 8                   |        |       |
|   |                | 9                   |        |       |
|   |                | 10                  |        |       |

| CLASSES CREATED |  | ATTRIBUTES |        |       |
|-----------------|--|------------|--------|-------|
|                 |  | ITEM NAMES | DIGITS | TYPES |
|                 |  | 1          |        |       |
|                 |  | 2          |        |       |
|                 |  | 3          |        |       |
|                 |  | 4          |        |       |
|                 |  | 5          |        |       |
|                 |  | 6          |        |       |
|                 |  | 7          |        |       |
|                 |  | 8          |        |       |
|                 |  | 9          |        |       |
|                 |  | 10         |        |       |

[PREVIOUS SCREEN](#)

[COMPLETION](#)

Fig. 6

| SUBDIVISION OF TABLES |                       |          |       |   |   |
|-----------------------|-----------------------|----------|-------|---|---|
| TABLES                |                       | BEVERAGE |       |   |   |
| MAKER                 |                       |          |       |   |   |
| 1                     | NAME                  | 50       | CHAR  | ◀ | ▶ |
| 2                     | LARGE CLASSIFICATION  | 20       | CHAR  |   |   |
| 3                     | MIDDLE CLASSIFICATION | 20       | CHAR  |   |   |
| 4                     | SMALL CLASSIFICATION  | 20       | CHAR  |   |   |
| 5                     | AGE BRACKET           | 20       | CHAR  |   |   |
| 6                     | PRICE                 | 10       | FROAT |   |   |
| 7                     | MAKER CODE            | 3        | INT   |   |   |
| 8                     | DEGREE                | 3        | INT   |   |   |
| 9                     | CLASS                 | 3        | INT   |   |   |
| 10                    | PREFECTURE CODE       | 2        | INT   |   |   |

PREVIOUS SCREEN      NEXT SCREEN

Fig. 7

| SET UP CLASS                      |                 | ATTRIBUTES OF BEVERAGES           |                  |    |       |
|-----------------------------------|-----------------|-----------------------------------|------------------|----|-------|
| CONTENTS OF MIDDLE CLASSIFICATION |                 | ITEM NAMES      DIGITS      TYPES |                  |    |       |
|                                   | CLASSIFICATION  | 5                                 | AGE BRACKET      | 20 | CHAR  |
| 1                                 | SAKE            | 6                                 | PRICE            | 10 | FLOAT |
| 2                                 | BEER            | 7                                 | MAKER CODE       | 3  | INT   |
| 3                                 | NATURAL WATER   | 8                                 | DEGREE           | 3  | INT   |
| 4                                 | PROCESSED WATER | 9                                 | CLASS            | 3  | INT   |
| 5                                 | SHOCHU          | 10                                | PREFECTURE CODE  | 2  | INT   |
| 6                                 |                 | 11                                | MALT             | 3  | INT   |
| 7                                 |                 | 12                                | COUNTRY CODE     | 3  | INT   |
| 8                                 |                 | 13                                | PRODUCING CENTER | 30 | CHAR  |
| 9                                 |                 | 14                                | INGREDIENT       | 30 | CHAR  |
| 10                                |                 |                                   |                  |    |       |

| CLASSES ALREADY CREATED |            | ATTRIBUTES |       |  |  |
|-------------------------|------------|------------|-------|--|--|
| CLASSES                 | ITEM NAMES | DIGITS     | TYPES |  |  |
| MAKER                   | 1          |            |       |  |  |
| COUNTRY                 | 2          |            |       |  |  |
| PREFECTURE              | 3          |            |       |  |  |
|                         | 4          |            |       |  |  |
|                         | 5          |            |       |  |  |
|                         | 6          |            |       |  |  |
|                         | 7          |            |       |  |  |
|                         | 8          |            |       |  |  |
|                         | 9          |            |       |  |  |
|                         | 10         |            |       |  |  |

Fig. 8

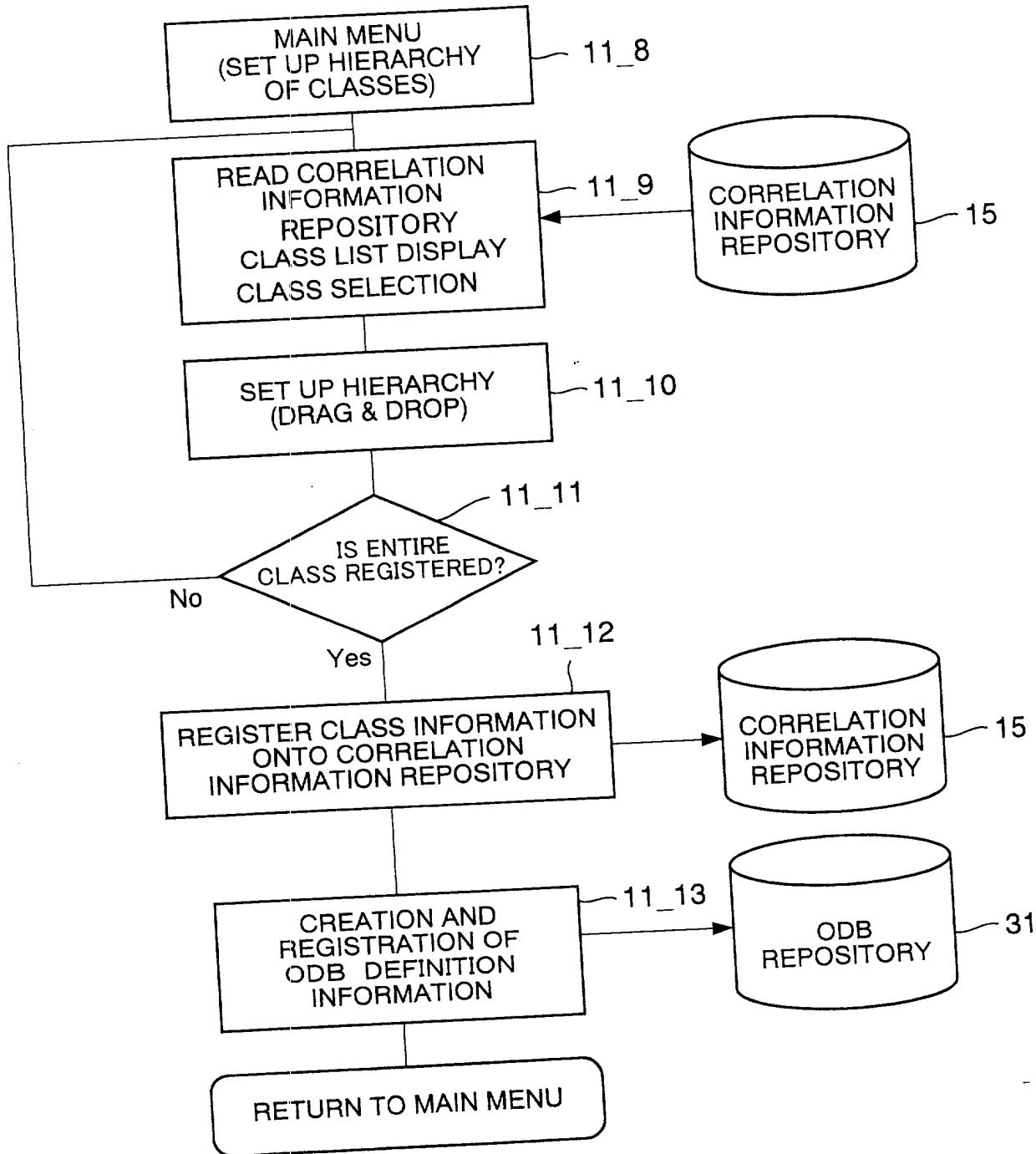


Fig. 9

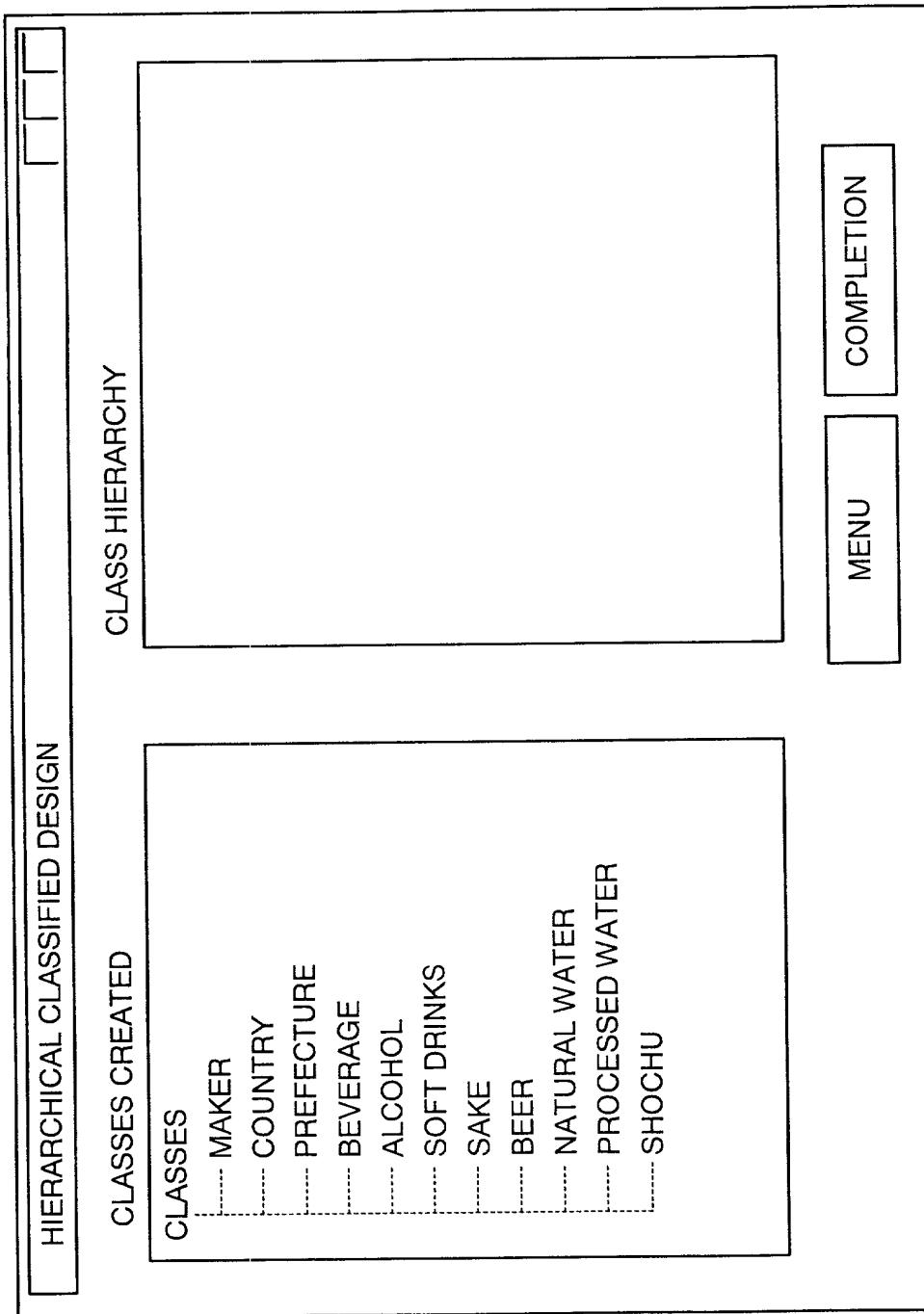


Fig. 10

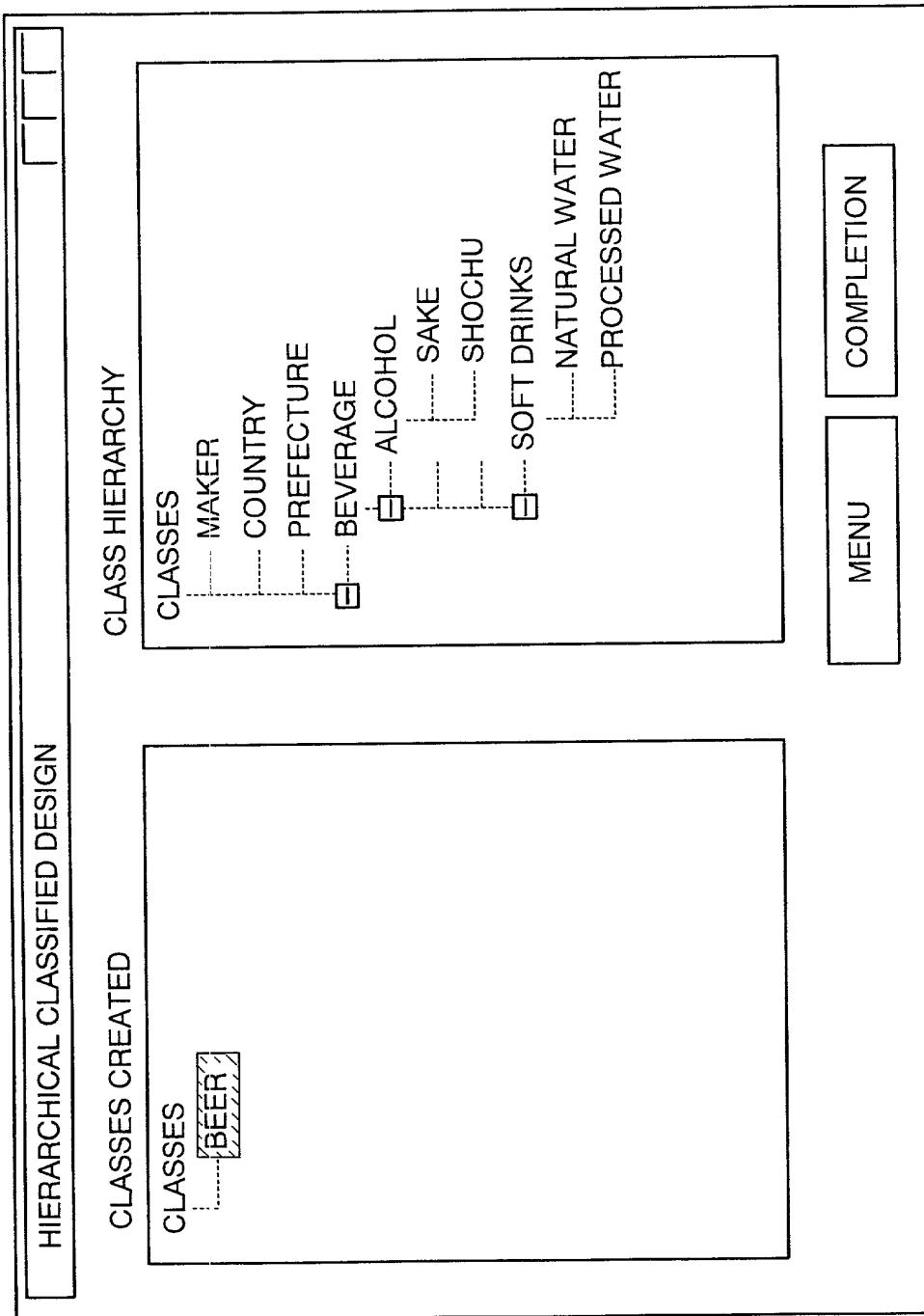


Fig. 11

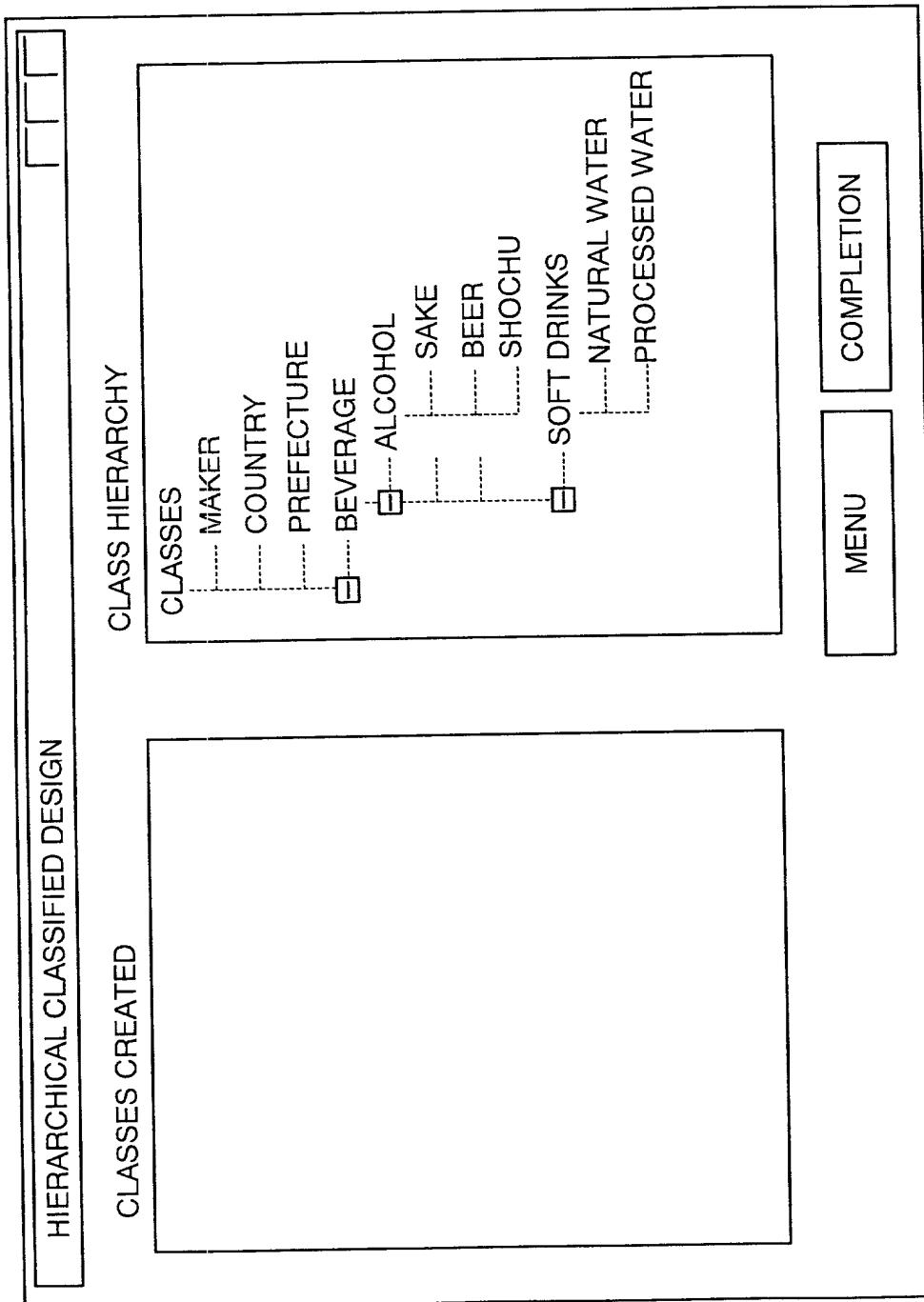


Fig. 12

| ITEM NAMES   | ATTRIBUTES NAMES | TABLE NAMES | CLASS NAMES | DATABASE NAMES |
|--------------|------------------|-------------|-------------|----------------|
| MAKER CODE   | MAKER NAME       | MAKER       | MAKER       | MAKER          |
| ADDRESS      | MAKER NAME       | MAKER       | MAKER       | MAKER          |
| MALT         | MAKER            | BEVERAGE    | BEER        | MAKER          |
| COUNTRY CODE | BEVERAGE         | BEVERAGE    | BEER        | BEER           |
|              |                  |             |             | CLASS          |

| INDEXES | HIERARCHY | SUBDIVISION CONDITIONS        |
|---------|-----------|-------------------------------|
| YES     | 1         |                               |
| NO      | 1         |                               |
| NO      | 1         | MIDDLE CLASSIFICATIONS='BEER' |
| NO      | 3-1-2     | MIDDLE CLASSIFICATIONS='BEER' |
| YES     | 3-1-2     | MIDDLE CLASSIFICATIONS='BEER' |

Fig. 13

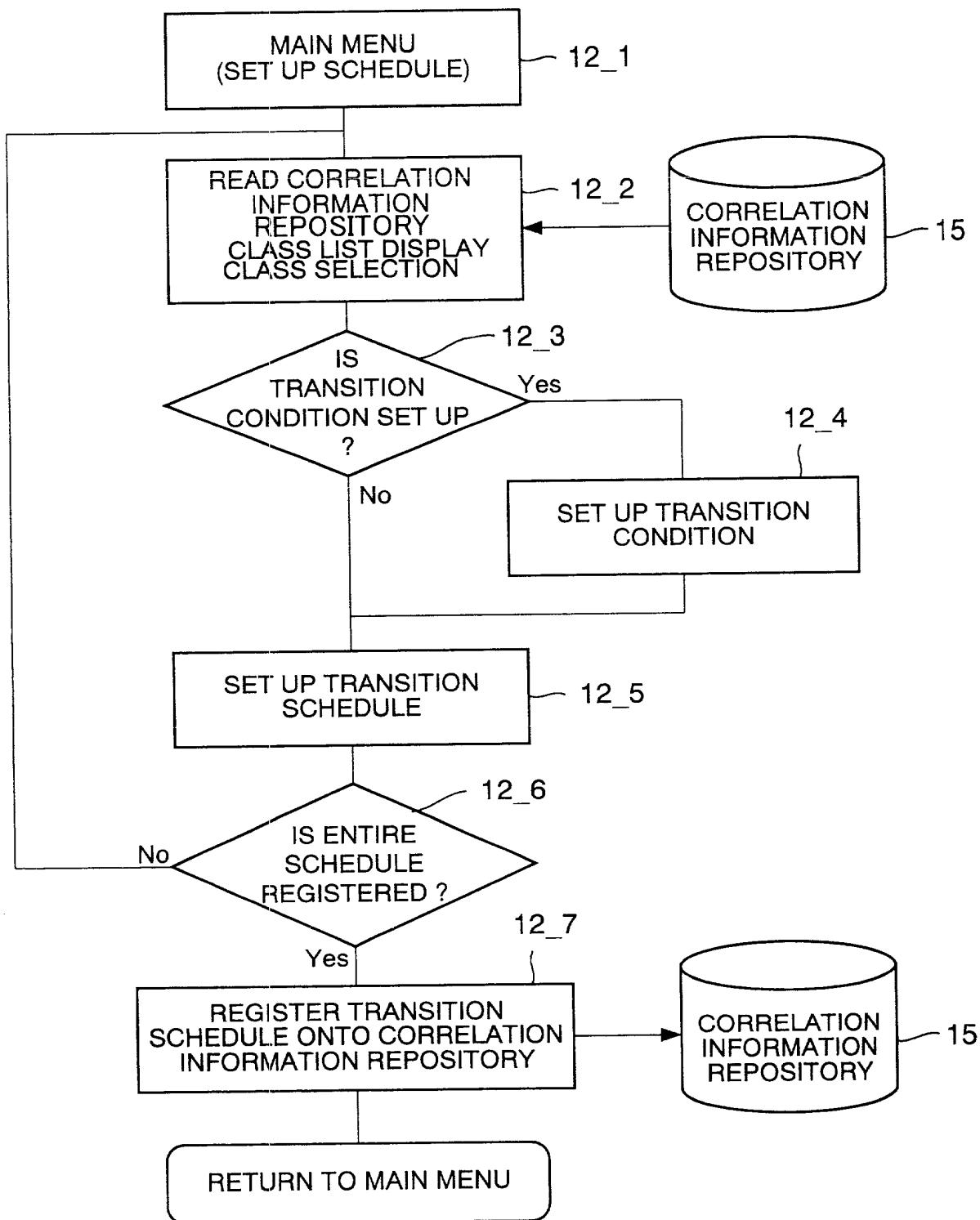


Fig. 14

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|   |            |    |       |    |      |    |      |    |        |
|---|------------|----|-------|----|------|----|------|----|--------|
| TRANSITION SCHEDULE SET UP  |            |    |       |    |      |    |      |    |        |
| CLASS AS TRANSITION OBJECT  | BEER       |    |       |    |      |    |      |    |        |
| TRANSITION REQUEST<br>PREARRANGED DATA  |            |    |       |    |      |    |      |    |        |
| 1998  | YEAR       | 12 | MONTH | 25 | DATE | 21 | TIME | 00 | MINUTE |
| RECIPE FOR ERRORS DURING EXECUTION OF SCHEDULE                                  |            |    |       |    |      |    |      |    |        |
| <input checked="" type="radio"/> TERMINATE IT, AND EXECUTE SUBSEQUENT SCHEDULES |            |    |       |    |      |    |      |    |        |
| <input type="radio"/> TERMINATE IT, AND SLAND BY SUBSEQUENT SCHEDULES           |            |    |       |    |      |    |      |    |        |
| <input type="radio"/> CONTINUE FORCIBLY   |            |    |       |    |      |    |      |    |        |
| PREVIOUS SCREEN   | COMPLETION |    |       |    |      |    |      |    |        |

Fig. 15

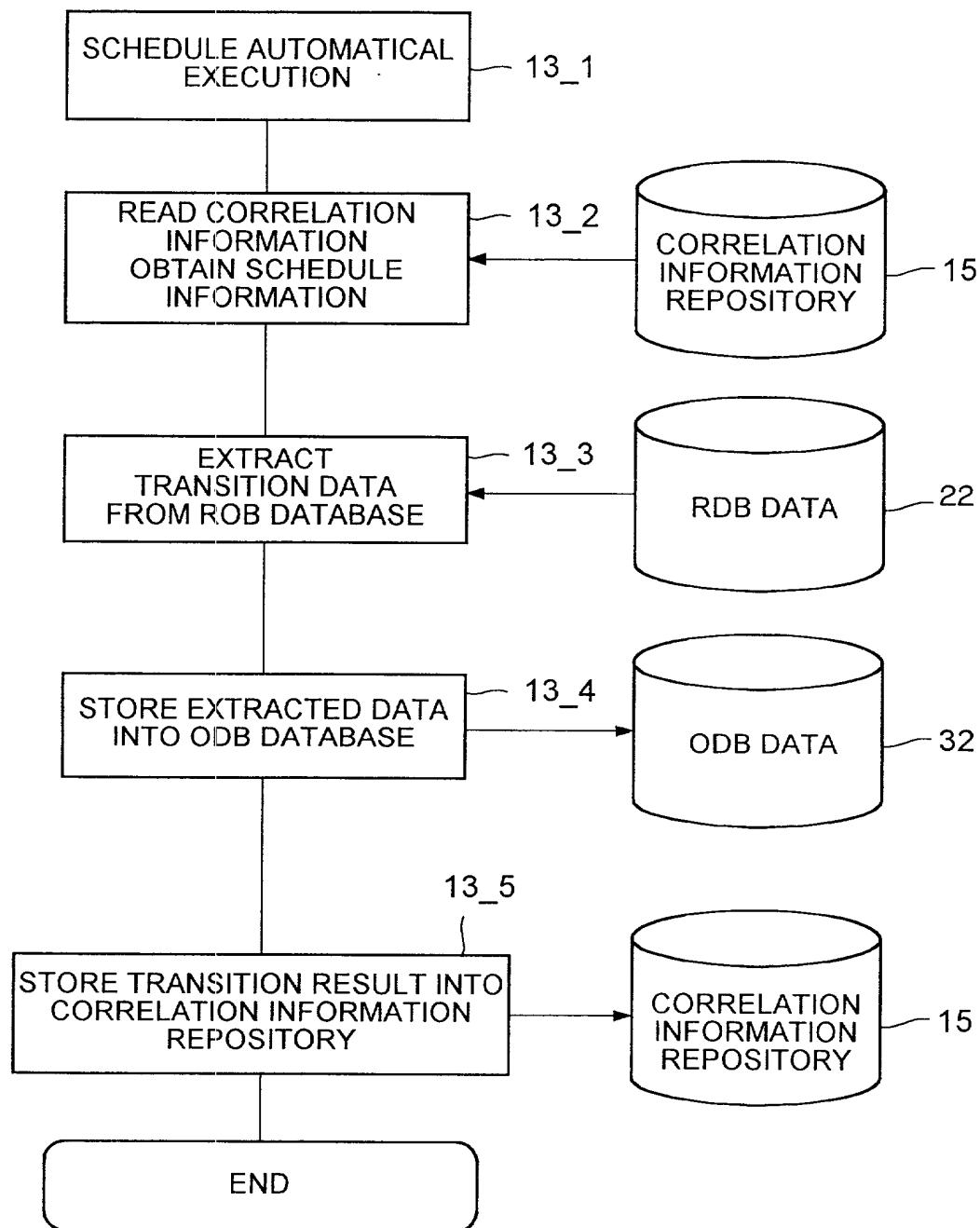


Fig. 16

| SCHEDULE EXECUTION SITUATION INQUIRY |                 |                 |                 |                   |                    |
|--------------------------------------|-----------------|-----------------|-----------------|-------------------|--------------------|
|                                      | CLASS NAME      | EXECUTION DATES | EXECUTION TIMES | STATES            | RESULT INFORMATION |
| 1                                    | COUNTRY         | 1998/12/25      | 18:00           | COMPLETION        | NORMAL END         |
| 2                                    | PREFECTURE      | 1998/12/25      | 18:30           | COMPLETION        | ERROR              |
| 3                                    | BEVERAGE        | 1998/12/25      | 19:00           | IN EXECUTION      |                    |
| 4                                    | ALCOHOL         | 1998/12/25      | 19:30           | NOT YET EXECUTION |                    |
| 5                                    | SOFT DRINKS     | 1998/12/25      | 20:00           | NOT YET EXECUTION |                    |
| 6                                    | SAKE            | 1998/12/25      | 20:30           | NOT YET EXECUTION |                    |
| 7                                    | BEER            | 1998/12/25      | 21:00           | NOT YET EXECUTION |                    |
| 8                                    | NATURAL WATER   | 1998/12/25      | 21:30           | NOT YET EXECUTION |                    |
| 9                                    | PROCESSED WATER | 1998/12/25      | 22:00           | NOT YET EXECUTION |                    |
| 10                                   | SHOCHU          | 1998/12/25      | 22:30           | NOT YET EXECUTION |                    |
| 11                                   |                 |                 |                 |                   |                    |
| 12                                   |                 |                 |                 |                   |                    |
| 13                                   |                 |                 |                 |                   |                    |
| 14                                   |                 |                 |                 |                   |                    |
| 15                                   |                 |                 |                 |                   |                    |
| 16                                   |                 |                 |                 |                   |                    |
| 17                                   |                 |                 |                 |                   |                    |
| 18                                   |                 |                 |                 |                   |                    |
| 19                                   |                 |                 |                 |                   |                    |
| 20                                   |                 |                 |                 |                   |                    |
| 21                                   |                 |                 |                 |                   |                    |
| 22                                   |                 |                 |                 |                   |                    |

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MENU

Fig. 17

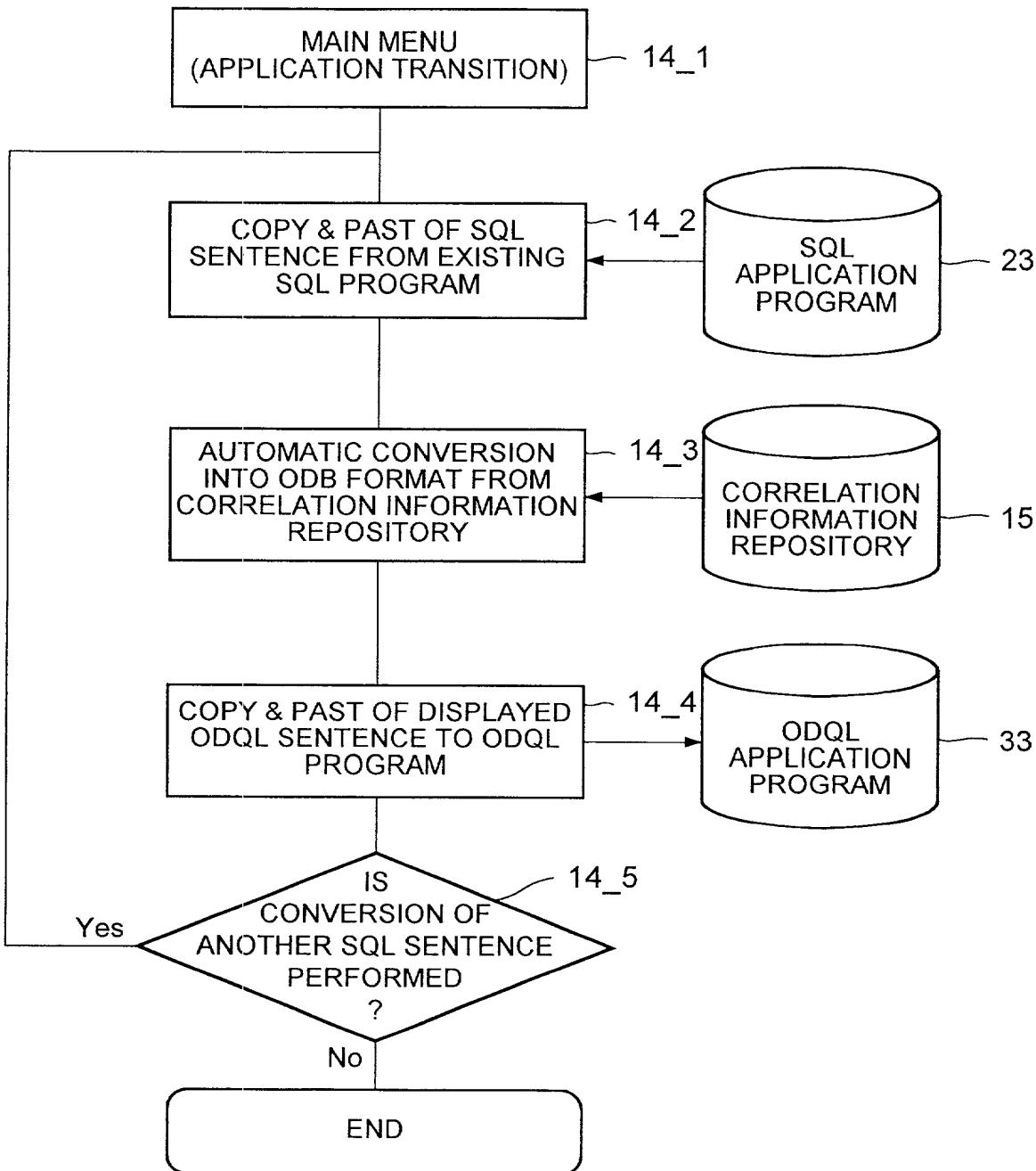


Fig. 18

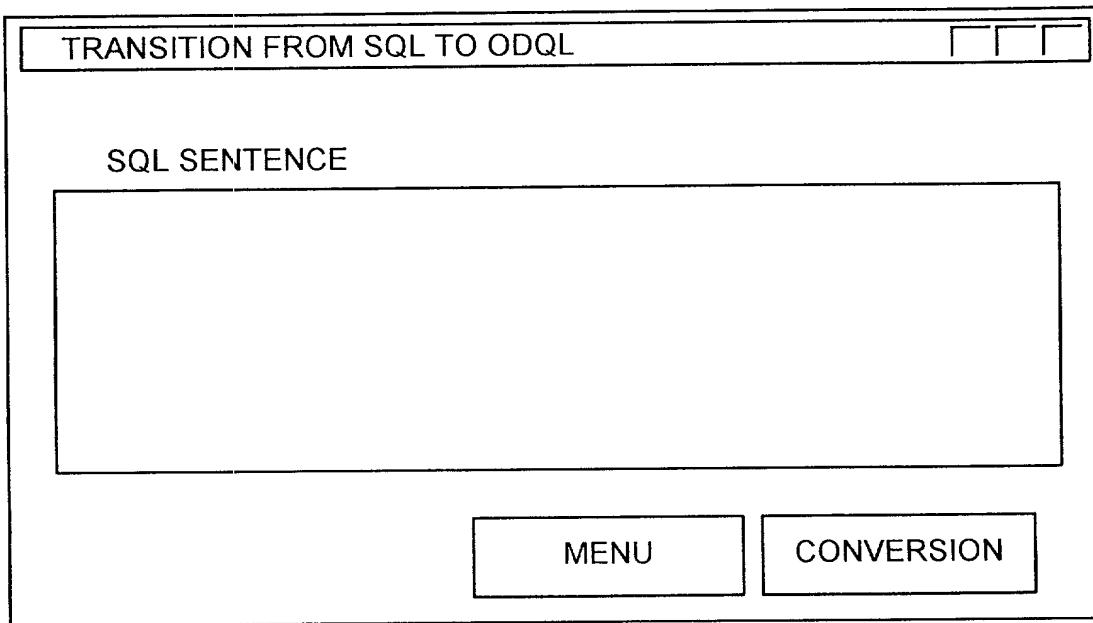


Fig. 19

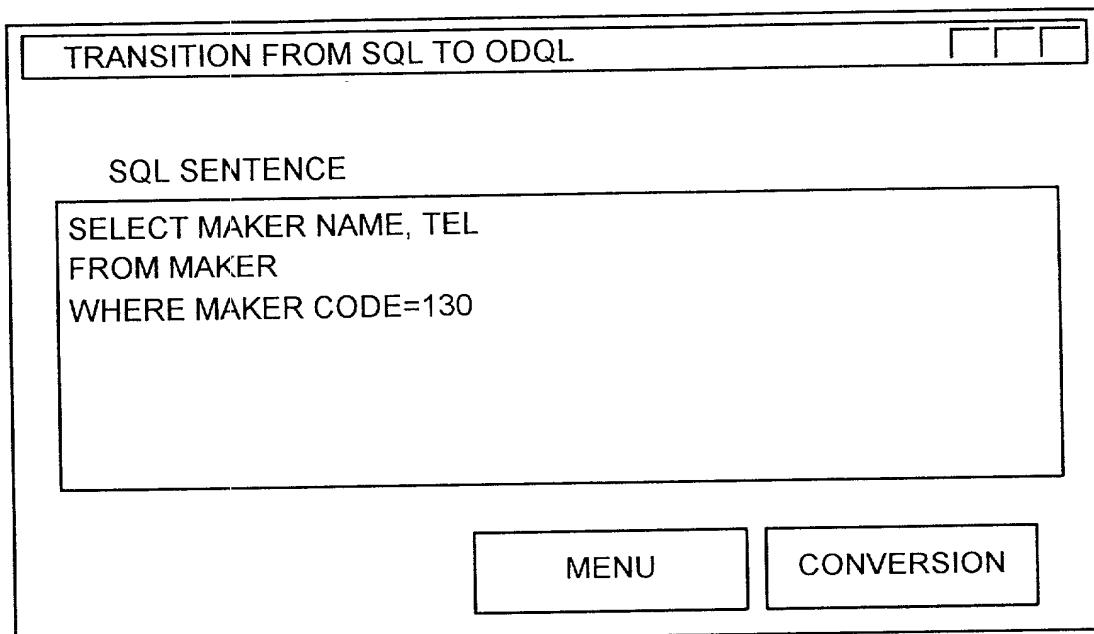


Fig. 20

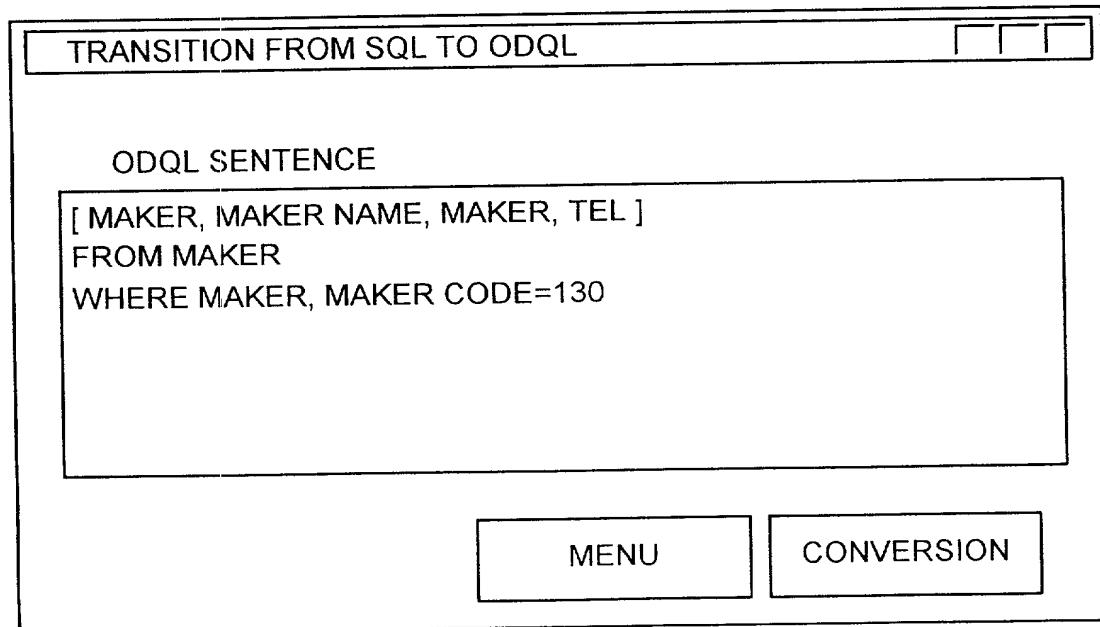


Fig. 21

(a)

| MAKER CODES | MAKER NAMES | HEAD OFFICES | FOUNDING YEARS | ANNUAL SALES         |
|-------------|-------------|--------------|----------------|----------------------|
| 001         | KARYN       | TOKYO-TO     | 1930           | 1200 HUNDRED MILLION |
| 002         | YONTORY     | OSAKA-FU     | 1915           | 860 HUNDRED MILLION  |
| 003         | YUHI        | TOKYO-TO     | 1896           | 1130 HUNDRED MILLION |
| 004         | HAKODATE    | TOKYO-TO     | 1967           | 680 HUNDRED MILLION  |
| 005         | COCA-COLA   | AICHI-KEN    | 1980           | 2800 HUNDRED MILLION |

(b)

| BEVERAGE            | LARGE CLASSIFICATIONS | MIDDLE CLASSIFICATIONS | SMALL CLASSIFICATIONS | AGE BRACKETS | PRICES | MAKER CODE |
|---------------------|-----------------------|------------------------|-----------------------|--------------|--------|------------|
| KARYN TANREI        | ALCOHOL               | BEER                   | BOTTLE                | 30'S         | 300    | 001        |
| KOKEN NO IWASHIMIZU | SOFT DRINKS           | NATURAL WATER          | CAN                   | 10'S         | 120    | 012        |
| MIZUMIZUSHII MIZU   | SOFT DRINKS           | PROCESSED WATER        | PET BOTTLE            | 20'S         | 150    | 004        |
| RAKER               | ALCOHOL               | BEER                   | CAN                   | 20'S         | 220    | 001        |
| ETSU NO KANBAI      | ALCOHOL               | SAKE                   | BOTTLE                | 40'S         | 1300   | 002        |

| DEGREES | CLASSES | PREFECTURE CODE | MOLTS | COUNTRY CODE |
|---------|---------|-----------------|-------|--------------|
| 20      |         |                 | 15%   | 002          |
|         |         | 003             |       | 003          |
|         |         | 007             | 20%   |              |
| 10      |         |                 |       |              |
| 35      | 1       | 010             |       |              |

Fig. 22

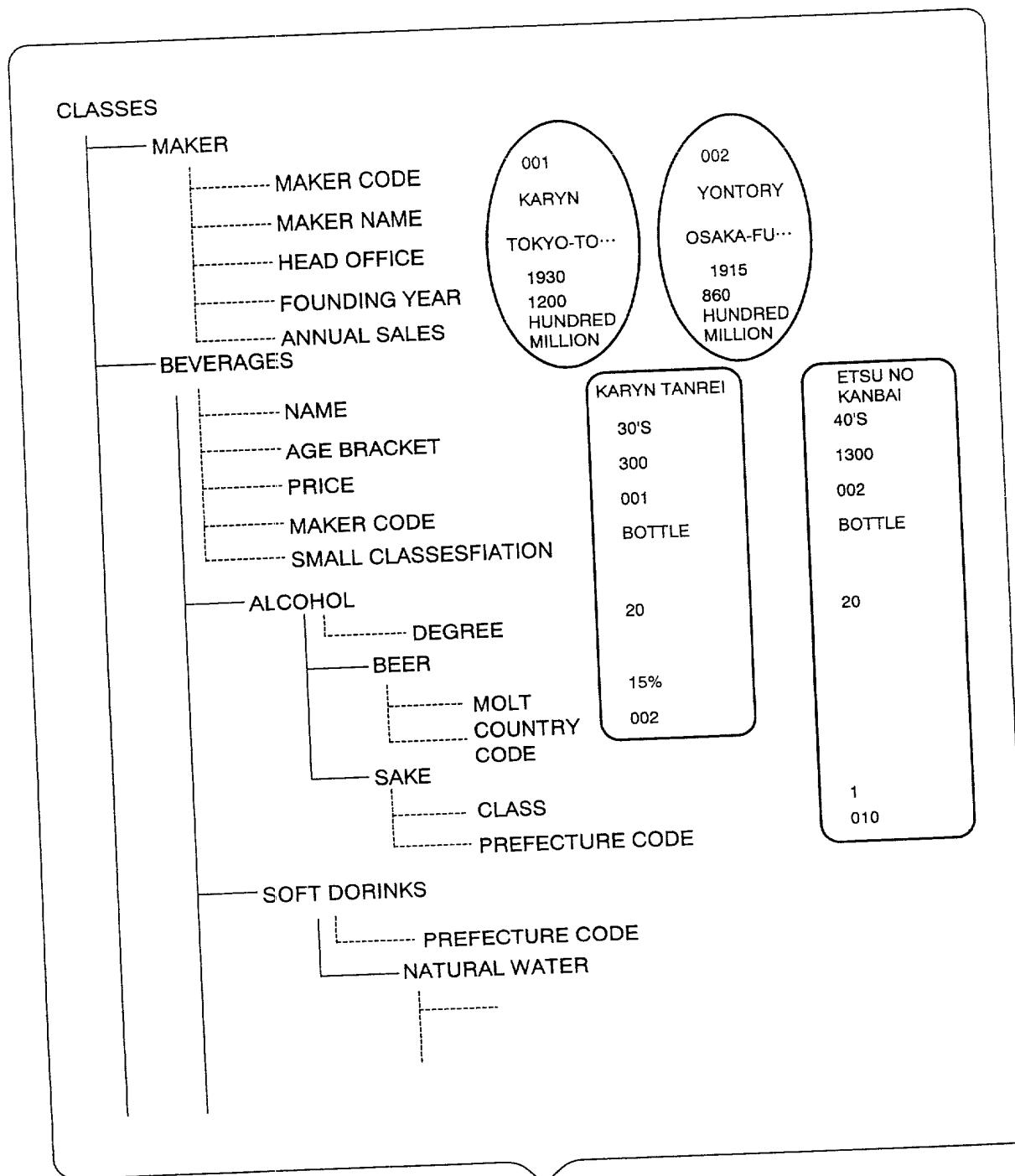


Fig. 23